SUBSTITUTE



| Application/Control No. | Applicant(s)/Patent under Reexamination |
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| 09/512,581 | SOTO ET AL. |
| Examiner | Art Unit |
| Stophon I Powlings Ph D | 1642 |

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| | | | ORIG | GINAL | | CROSS REFERENCE(S) | | | | | | | | | | | | |
| CLASS SUBCLASS | | | | | CLASS | S SUBCLASS (ONE SUBCLASS PER BLOCK) | | | | | | | | | | | | |
| 435 | | | | 69.1 | 536 | 23.1 | 23.5 | 24.31 | 24.33 | | | | | | | | | |
| INTERNATIONAL CLASSIFICATION | | | | | 435 | 320.1 | 325 | | | | | | | | | | | |
| С | 1 | 2 | P | 21/06 | | | | | | | | | | | | | | |
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| Stephen L. Rawlings (Assistant Examiner) (Date) | | | | | | LA | RRY R. HI | ELMS, PH. YTENT EX | Total Claims Allowed: 11 | | | | | | | | | |
| | (Le | | | (A) 1 | 28(<i>0</i>) | -Uph | nary Examine | 11/2 | O.G. Print Claim(s) | O.G. Print Fig None | | | | | | | | |

| Claims renumbered in the same order as presented by applicant | | | | | | | | | | | □ СРА | | | □ T.D. | | | ☐ R.1.47 | | |
|---|----------|--|-------|----------|--|-------|----------|--|-------|----------|-------|-------|----------|--------|-------|----------|----------|----------|----------|
| Final | Original | | Final | Original | | Final | Original | | Final | Original | | Final | Original | | Final | Original | | Final | Original |
| 1 | 1 | | | 31 | | | 61 | | | 91 | | | 121 | | | 151 | | | 181 |
| 2 | 2 | | | 32 | | | 62 | | | 92 | | | 122 | | | 152 | | | 182 |
| | 3 | | | 33 | | | 63 | | | 93 | | | 123 | | | 153 | | | 183 |
| | 4 | | | 34 | | | 64 | | | 94 | | | 124 | | | 154 | | | 184 |
| 3 | 5 | | | 35 | | | 65 | | | 95 | | | 125 | | | 155 | | | 185 |
| | 6 | | | 36 | | | 66 | | | 96 | | | 126 | | | 156 | | | 186 |
| | 7 | | | 37 | | | 67 | | | 97 | | | 127 | | | 157 | | | 187 |
| 5 | 8 | | | 38 | | 4 | 68 | | | 98 | | | 128 | | | 158 | | | 188 |
| 7 | 9 | | | 39 | | | 69 | | | 99 | | | 129 | | | 159 | | | 189 |
| 8 | 10 | | | 40 | | | 70 | | | 100 | | | 130 | | | 160 | | | 190 |
| 9 | 11 | | | 41 | | | 71 | | | 101 | | | 131 | | | 161 | | | 191 |
| 10 | 12 | | | 42 | | | 72 | | | 102 | | | 132 | | | 162 | | | 192 |
| | 13 | | | 43 | | | 73 | | | 103 | | | 133 | | | 163 | | | 193 |
| | 14 | | | 44 | | | 74 | | | 104 | | | 134 | | | 164 | | | 194 |
| | 15 | | | 45 | | | 75 | | | 105 | | | 135 | | | 165 | | | 195 |
| | 16 | | | 46 | | | 76 | | | 106 | | | 136 | | | 166 | | | 196 |
| | 17 | | 6 | 47 | | | 77 | | | 107 | | | 137 | | | 167 | | | 197 |
| | 18 | | 11 | 48 | | | 78 | | | 108 | | | 138 | | | 168 | | | 198 |
| | 19 | | | 49 | | | 79 | | | 109 | | | 139 | | | 169 | | | 199 |
| | 20 | | | 50 | | | 80 | | | 110 | | | 140 | | | 170 | | | 200 |
| | 21 | | | 51 | | | 81 | | | 111 | | | 141 | | | 171 | | | 201 |
| | 22 | | | 52 | | | 82 | | | 112 | | | 142 | | | 172 | | | 202 |
| | 23 | | | 53 | | | 83 | | | 113 | | | 143 | | | 173 | | | 203 |
| | 24 | | | 54 | | | 84 | | | 114 | | | 144 | | | 174 | | | 204 |
| | 25 | | | 55 | | | 85 | | | 115 | | | 145 | | | 175 | | | 205 |
| | 26 | | | 56 | | | 86 | | | 116 | | | 146 | | | 176 | | | 206 |
| | 27 | | | 57 | | | 87 | | | 117 | | | 147 | | | 177 | | | 207 |
| | 28_ | | | 58 | | | 88 | | | 118 | | | 148 | | | 178 | | | 208 |
| | 29 | | | 59 | | | 89 | | | 119 | | | 149 | | | 179 | | | 209 |
| | 30 | | | 60 | | | 90 | | | 120 | | | 150 | | | 180 | | <u> </u> | 210 |

ORIGINAL

Issue Classification

| Application/Control No. | Applicant(s)/Patent under Reexamination | • |
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| 09/512,581 | SOTO ET AL. | |
| Examiner | Art Unit | |
| Stephen L. Rawlings, Ph.D. | 1642 | |

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| C | RIGINAL | | CROSS:REFERENCE(S) | | | | | | | | | | | | |
| CLASS | SUBCLASS | CLASS | SUBCLASS (ONE SUBCLASS PER BLOCK) | | | | | | | | | | | | |
| 435 | 69.1 | 536 | 23.1 | 23.5 | 24.31 | 24.33 | | | | | | | | | |
| INTERNATION | IAL CLASSIFICATION | 435 | 320.1 | 325 | | | | | | | | | | | |
| C 1 2 F | 21/06 | | | | | | | | | | | | | | |
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| Stephen L. Rawlings (Assistant Examinet) (Date) | | | / | LARRY R. HI PRIMARY I | ELMS, PH.D EXAMINER | Total Claims Allowed: 11 | | | | | | | | | |
| | W | O S D S (Date) | $\mathcal{M}_{\scriptscriptstyle (Prir}$ | nary Examiner |) 6 | OG OG Print Claim(s) Print Fig 1 None | | | | | | | | | |

| | Claims renumbered in the same order as prese | | | | | | | | | | / appli | cant | ☐ CPA | | | □ T.D. | | | ☐ R.1.47 | |
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| | Final | Original | | Final | Original | | Final | Original | | Final | Original | | Final | Original | | Final | Original | | Final | Original |
| 1 | 1 | 1 | | | 31 | | | 61 | | | 91 | | | 121 | | | 151 | | | 181 |
| 2 | 8 | 2 | | | 32 | | | 62 | | | 92 | | | 122 | | | 152 | | | 182 |
| | | 3 | | | 33 | | | 63 | | | 93 | | | 123 | | | 153 | | | 183 |
| | | 4 | | | 34 | | | 64 | | | 94 | | | 124 | | | 154 | | | 184 |
| 3 | 9 | 5 | | | 35 | | | 65 | | | 95 | | | 125 | | | 155 | | | 185 |
| | | 6 | | | 36 | | | 66 | | | 96 | | | 126 | | | 156 | | | 186 |
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| 5 | 2 | 8 | | | 38 | 4 | 11 | 68 | | | 98 | | | 128 | | | 158 | | | 188 |
| 57890 | _4 | 9 | | | 39 | | | 69 | | | 99 | | | 129 | | | 159 | | | 189 |
| 81 | 5 | 10 | | | 40 | | | 70 | | | 100 | | | 130 | | | 160 | | | 190 |
| 9 | 6 | 11 | | | 41 | | | 71 | | | 101 | | | 131 | | | 161 | | | 191 |
| 10 | 7 | 12 | | | 42 | | | 72 | | | 102 | | | 132 | | | 162 | | | 192 |
| | | 13 | | | 43 | | | 73 | | | 103 | | | 133 | | | 163 | | | 193 |
| | | 14 | | | 44 | | | 74 | | | 104 | | | 134 | | | 164 | | | 194 |
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| ļ | | 18_ | 11 | 10 | 48 | | | 78 | | | 108 | | | 138 | | | 168 | | | 198 |
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| ļ | <u> </u> | 23 | | | 53 | | | 83 | | | 113 | | | 143 | | | 173 | | | 203 |
| - | | 24 | | | 54 | | | 84 | | | 114 | | | 144 | | | 174 | | | 204 |
| | | 25 | | | 55 | | | 85 | | | 115 | | | 145 | | | 175 | | | 205 |
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| - 1 | | 27 | | | 57 | | | 87 | | | 117 | | | 147 | | | 177 | | | 207 |
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